

Data Paper

Checklist of coastal fishes from Cabo Verde Archipelago

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Abstract

Background

Taxonomic and geographic misattributions in biodiversity inventories remain a pressing issue in biogeographical research, particularly in regions with overlapping or similar place names. The Republic of Cabo Verde (also known as Cabo Verde Islands) and the Cape Verde Peninsula (Senegal) exemplify this challenge, where historical and recent studies have struggled to provide accurate species distributions due to unverified, erroneous and ambiguous records. This underscores the necessity of comprehensive, reliable datasets to delineate species occurrences across these distinct geographic areas.

New information

This study provides a rigorously verified inventory of coastal fish species occurring within the Exclusive Economic Zone (EEZ) of the Republic of Cabo Verde, focusing on depths between 0 and 200 metres. By delineating the faunal composition specific to Cabo Verde,

this work addresses the recurrent confusion with species lists referencing the Cape Verde Peninsula (Senegal).

A total of 393 species, distributed among 125 families and 40 orders, is documented, offering an invaluable resource for refining biodiversity assessments and providing information forconservation strategies in this biogeographically unique region. Two species, *Thalassoma newtoni* (Osório, 1891) and *Diodon eydouxii* Brisout de Barneville, 1846, are reported for the first time from Cabo Verde in this paper.

Keywords

ichthyo-diversity, ichthyofauna distribution, new records, regional inventory, species inventory verification, tropical east Atlantic

Introduction

Checklists are important records of local biodiversity, furnishing baseline data to support conservation initiatives and ecological investigations, as they provide a structured approach to cataloguing and tracking biodiversity (Lim et al. 2024). Wirtz et al. (2013) produced the first comprehensive, annotated and illustrated checklist of the coastal fishes of the Cabo Verde Islands, which includes previously recorded species, new non-records, doubtful species, invalid records and species for which additional data are required.

These tools enhance our understanding of species' distribution and abundance patterns, which is pivotal for implementing effective management and conservation strategies (Droege et al. 2008, Reyserhove et al. 2020, Lo Brutto 2023). Furthermore, they serve as foundational resources for improving local Red Lists and contribute to broader conservation biology efforts and also providing a standardised format for sharing taxonomic information, which is essential for collaborative conservation (Droege et al. 2008, GBIF 2017).

Cabo Verde is an archipelagic country located in the eastern central Atlantic (Hoving et al. 2020), west of Senegal (Fig. 1). This volcanic archipelago comprises ten main islands and several smaller islets, characterised by steep shorelines that rise from ocean depths exceeding 3,000 metres (Wenzel et al. 2020).

The archipelago lies at the eastern boundary of the North Atlantic subtropical gyre and at the southern limit of the Canary Current, while also being influenced by the North Equatorial Counter-Current. The climate is tropical, with two alternating seasons: a mild period (December to June) and a warm season (July to November) (Peña-Izquierdo et al. 2012). As in other islands within this ecoregion, Cabo Verde's weather patterns are influenced by the Atlantic Ocean and the subtropical high-pressure system. The distances, habitat heterogeneity and bathymetric features amongst island groups result in

the physical isolation of a naturally fragmented landscape, shaping the distribution patterns of the archipelago's marine fauna (Medina et al. 2007).

The Sahelian Upwelling acts as a cryptic barrier to the dispersal of nektonic marine species between Cabo Verde and the African mainland, as indicated by the differences in ichthyofauna observed by Wirtz (2009) and Wirtz (2012) between Ngor Island (Senegal) and the Cabo Verde Islands. In fact, Cabo Verde shows stronger marine faunal affinities with the Guinean Region and the Canary Islands than with the north-west African coast (Morri et al. 2000, Wirtz et al. 2013).

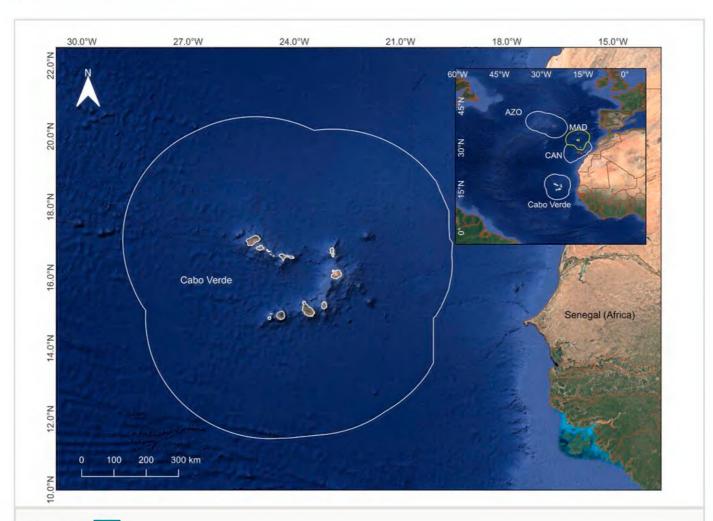


Figure 1. doi

Cabo Verde with EEZ (white line). Inserted - Cabo Verde locations in eastern tropical Atlantic in relation to the other Macaronesian archipelagos (AZO: Azores, MAD: Madeira, CAN: Canary Islands).

The Cabo Verde Islands exhibit a much higher degree of coastal fish endemism than the other Macaronesian archipelagos (i.e. the Azores, Madeira, Selvagens and Canary Islands) and, in terms of the number of endemic taxa, Cabo Verde more closely resembles the islands in the Gulf of Guinea than the north-west African coast (Wirtz et al. 2013). From the perspective of marine community structure and ichthyogeography, Cabo Verde diverges substantially from the other Macaronesian islands (Brito et al. 1999, Morri et al. 2000, Brito et al. 2006).

Historically, fish lists for Cabo Verde have been compiled from multiple sources, many of which inadvertently included data pertaining to the Cape Verde Peninsula (Senegal) rather than the archipelago. An updated, comprehensive list was, therefore, needed for

the coastal species inhabiting Cabo Verde's waters. This paper compiles the most recent data available on the archipelago's fish diversity. The ichthyological diversity of the islands is recognised as unique, with several endemic species (Table 1) (Reiner 2005, Wirtz et al. 2013, Freitas 2014).

Table 1. Endemic coastal species (n = 23) of Cabo Verde, belonging to 13 families and seven orders.

Order	Family	Scientific name	
Rajiformes	Rajidae	Raja herwigi Krefft, 1965	
Gobiiformes	Gobiidae	Gobius ateriformis Brito & Miller, 2001	
		Gobius salamansa Iglésias, Frotté & Sellos, 2015	
		Gobius tetrophthalmus Brito & Miller, 2001	
		Marcelogobius janetarum (Schliewen, Wirtz & Kovačić 2018)	
		Mauligobius nigri (Günther, 1861)	
Carangiformes	Soleidae	Pegusa cadenati Chabanaud, 1954	
Beloniformes	Belonidae	Platybelone lovii (Günther, 1866)	
Mugiliformes	Mugilidae	Chelon bispinosus (Bowdich, 1825)	
Blenniiformes	Pomacentridae	Chromis lubbocki Edwards, 1986	
		Similiparma hermani (Steindachner, 1887)	
	Gobiesocidae	Apletodon barbatus Fricke, Wirtz & Brito, 2010	
	Blenniidae	Microlipophrys caboverdensis (Wirtz & Bath, 1989)	
		Parablennius salensis Bath, 1990	
		Scartella caboverdiana Bath, 1990	
	Labrisomidae	Malacoctenus carrowi Wirtz, 2014	
Perciformes	Pinguipedidae	Parapercis atlantica (Vaillant, 1887)	
Centrarchiformes	Girellidae	Girella stuebeli Troschel, 1866	
Acanthuriformes	Haemulidae	Parapristipoma humile (Bowdich ,1825)	
	Sparidae	Diplodus fasciatus (Valenciennes, 1830)	
		Diplodus lineatus (Valenciennes, 1830)	
		Diplodus prayensis Cadenat, 1964	
		Virididentex acromegalus (Osório, 1911)	

General description

Purpose: Using published works - Brito et al. (1999), Fricke et al. (2010), Hanel et al. (2010), Wirtz et al. (2013), Freitas (2014), Wirtz (2014), González et al. (2016), Freitas et al. (2018), González et al. (2018), Schliewen et al. (2018), Freitas et al. (2019b) amongst others, we have produced this list of species.

Additional information: We define coastal species as those occurring at depths of up to 200 metres. This definition includes species that may be more commonly found below this depth, but which are known to occur, at least occasionally, in shallower waters.

Other species are possibly present, but have not yet been detected, such as *Isistius* spp. (see Barcelos et al. 2024). The Cabo Verde Islands lie within the distribution range of both species of this genus and interactions between these species and cetaceans in Cabo Verdean waters have already been documented (Wenzel and Suárez 2021).

Project description

Title: Checklist list of Coastal fishes of Cabo Verde.

Personnel: Evandro P Lopes acted as collection curator and database management.

Study area description: Located in the eastern central Atlantic, 570 km west of Ngor Island (Senegal, West African coast) the Cabo Verde archipelago is composed of ten islands and eight islets formed by rock accumulation arising from volcanic eruptions from a hotspot under submarine platforms. The total land area of 4,033 km² with ~ 965 km of coastline which is believed to have formed between ~ 3 to 15.8 Ma. The insular marine platform (< 200 m) surrounding the islands covers approximately 1,900 km², representing only 0.2% of the total Cabo Verde Exclusive Economic Zone (EEZ). The total EEZ area of Cabo Verde accounts for 796,000 km² excluding the insular shelf area (isobaths depth < 200 m).

Design description: State-of-the-art literature review.

Sampling methods

Description: Literature review including all published and confirmed occurrences focusing on updated and recent publications.

Sampling description: State-of-the-art literature review.

Step description: Literature review, fieldwork (sampling), occurrence confirmation.

Geographic coverage

Description: Surrounding area of the Cabo Verde archipelago, spreading from the country's Exclusive Economic Zone (ZEE).

Coordinates: 14 and 18 Latitude; -26 and -22 Longitude.

Taxonomic coverage

Description: This list comprises all shallow water (down to 200 m) records of both elasmobranch and actinopterigyans so far confirmed for the geographical area of Cabo Verde. The results presented are updated and subject to changes as all checklists are dynamic.

This checklist (Table 2) comprises 393 species across 38 orders and 125 families (Table 3). Species are listed alphabetically within families, following the taxonomy proposed by Fricke et al. (2025) and Van der Laan et al. (2025).

Table 2.

List of coastal species from Cabo Verde, with orders and families, following the phylogenetic organisation proposed by Van der Laan et al. (2025).

Order	Family	cientific Name	References
Hexanchiformes	Hexanchidae	Heptranchias perlo (Bonnaterre, 1788)	Menezes et al. (2004)
Hexanchiformes	Hexanchidae	Hexanchus griseus (Bonnaterre, 1788)	Hazevoet (2015)
Orectolobiformes	Rhincodontidae	Rhincodon typus Smith, 1828	Wirtz et al. (2013), Varela et al. (2025)
Orectolobiformes	Ginglymostomatidae	Ginglymostoma cirratum (Bonnaterre, 1788)	Wirtz et al. (2013), Freitas et al. (2019a)
Lamniformes	Odontaspididae	Carcharias taurus Rafinesque, 1810	Wirtz et al. (2013)
Lamniformes	Odontaspididae	Odontaspis ferox (Risso, 1810)	Reiner (1996), Menezes et al. (2015)
Lamniformes	Alopiidae	Alopias superciliosus Lowe, 1841	Wirtz et al. (2013)
Lamniformes	Alopiidae	Alopias vulpinus (Bonnaterre, 1788)	Carpenter and De Angelis (2016a); Eichenbaum (pers. comm. to Rui Freitas)
Lamniformes	Cetorhinidae	Cetorhinus maximus (Gunnerus, 1765)	Wirtz et al. (2013)

Order	Family	cientific Name	References
Lamniformes	Lamnidae	Carcharodon carcharias (Linnaeus, 1758)	Wirtz et al. (2013)
Lamniformes	Lamnidae	Isurus oxyrinchus Rafinesque, 1810	Wirtz et al. (2013)
Lamniformes	Lamnidae	Isurus paucus Guitart Manday, 1966	Wirtz et al. (2013)
Carcharhiniformes	Pseudotriakidae	Galeorhinus galeus (Linnaeus, 1758)	Wirtz et al. (2013)
Carcharhiniformes	Leptochariidae	Leptocharias smithii (Müller & Henle, 1839)	Wirtz et al. (2013)
Carcharhiniformes	Triakidae	Mustelus mustelus (Linnaeus, 1758)	Krakstad et al. (2011), Menezes et al. (2015)
Carcharhiniformes	Hemigaleidae	Paragaleus pectoralis (Garman, 1906)	Wirtz et al. (2013)
Carcharhiniformes	Carcharhinidae	Carcharhinus altimus (Springer, 1950)	Wirtz et al. (2013)
Carcharhiniformes	Carcharhinidae	Carcharhinus brevipinna (Valenciennes, 1839)	Wirtz et al. (2013)
Carcharhiniformes	Carcharhinidae	Carcharhinus falciformis (Bibron, 1839)	Wirtz et al. (2013)
Carcharhiniformes	Carcharhinidae	Carcharhinus galapagensis (Snodgrass & Heller, 1905)	Wirtz et al. (2013)
Carcharhiniformes	Carcharhinidae	Carcharhinus leucas (Valenciennes, 1839)	Wirtz et al. (2013)
Carcharhiniformes	Carcharhinidae	Carcharhinus limbatus (Valenciennes, 1839)	Wirtz et al. (2013)
Carcharhiniformes	Carcharhinidae	Carcharhinus longimanus (Poey, 1861)	Wirtz et al. (2013)
Carcharhiniformes	Carcharhinidae	Carcharhinus obscurus (Lesueur, 1818)	Wirtz et al. (2013)
Carcharhiniformes	Carcharhinidae	Carcharhinus plumbeus (Nardo, 1827)	Wirtz et al. (2013)
Carcharhiniformes	Carcharhinidae	Carcharhinus signatus (Poey, 1868)	Wirtz et al. (2013)
Carcharhiniformes	Carcharhinidae	Galeocerdo cuvier (Péron & Lesueur, 1822)	Wirtz et al. (2013)

Order	Family	cientific Name	References
Carcharhiniformes	Carcharhinidae	Negaprion brevirostris (Poey, 1868)	Debeius and Kuiter (2006), Wirtz et al. (2013)
Carcharhiniformes	Carcharhinidae	Prionace glauca (Linnaeus, 1758)	Wirtz et al. (2013)
Carcharhiniformes	Carcharhinidae	Rhizoprionodon acutus (Rüppell, 1837)	Wirtz et al. (2013)
Carcharhiniformes	Sphyrnidae	Sphyrna lewini (Griffith & Smith, 1834)	Varela et al. (2025)
Carcharhiniformes	Sphyrnidae	Sphyrna mokarran (Rüppell, 1837)	Wirtz et al. (2013)
Carcharhiniformes	Sphyrnidae	Sphyrna zygaena (Linnaeus, 1758)	Wirtz et al. (2013)
Squaliformes	Squalidae	Squalus megalops (Macleay, 1881)	Freitas et al. (2018)
To rpediniformes	Torpedinidae	Torpedo mackayana Metzelaar, 1919	Ratão et al. (2022)
To rpediniformes	Torpedinidae	Torpedo marmorata Risso, 1810	Wirtz et al. (2013)
Rhinopristiformes	Glaucostegidae	Glaucostegus cemiculus (Geoffroy St. Hilaire, 1817)	Freitas et al. (2018)
Rajiformes	Rajidae	Raja herwigi Krefft, 1965	Wirtz et al. (2013)
Myliobatiformes	Dasyatidae	Bathytoshia centroura (Mitchill, 1815)	Wirtz et al. (2013)
Myliobatiformes	Dasyatidae	Dasyatis pastinaca (Linnaeus, 1758)	Krakstad et al. (2011), Wirtz et al. (2013)
Myliobatiformes	Dasyatidae	Fontitrygon margarita (Günther, 1870)	Wirtz et al. (2013)
Myliobatiformes	Dasyatidae	Pteroplatytrygon violacea (Bonaparte, 1832)	Debelius (1997)
Myliobatiformes	Dasyatidae	Taeniurops grabatus (Geoffroy St.Hilaire, 1817)	Wirtz et al. (2013)
Myliobatiformes	Gymnuridae	Gymnura altavela (Linnaeus, 1758)	Thomas Eichenbaum, pers. comm. to RI
Myliobatiformes	Aetobatidae	Aetobatus narinari (Euphrasen, 1790)	Debelius (1997), Carpenter and De Angelis (2016a)

Order	Family	cientific Name	References
Myliobatiformes	Myliobatidae	Myliobatis aquila (Linnaeus, 1758)	Wirtz et al. (2013), Carpenter and De Angelis (2016a)
Myliobatiformes	Mobulidae	Mobula alfredi (Krefft, 1868)	Marshall et al. (2009), Wirtz et al. (2013)
Myliobatiformes	Mobulidae	Mobula birostris (Walbaum, 1792)	Wirtz et al. (2013)
Myliobatiformes	Mobulidae	Mobula tarapacana (Philippi, 1892)	Wirtz et al. (2013)
Myliobatiformes	Mobulidae	Mobula thurstoni (Lloyd, 1908)	Ratão et al. (2017)
Elopiformes	Elopidae	Elops senegalensis Regan, 1909	Freitas et al. (2018)
Elopiformes	Megalopidae	Megalops atlanticus Valenciennes, 1847	Wirtz et al. (2013)
Albuliformes	Albulidae	Albula goreensis Valenciennes, 1847	Quéro et al. (1990)
Albuliformes	Albulidae	Nemoossis belloci (Cadenat, 1937)	Wirtz et al. (2013), Hidaka et al. (2017)
Anguilliformes	Synaphobranchidae	Synaphobranchus affinis Günther, 1877	Almeida et al. (2010), González et al. (2014), González et al. (2021a)
Anguilliformes	Myrocongridae	Myroconger compressus Günther, 1870	González et al. (2014), González et al. (2021)
Anguilliformes	Muraenidae	Anarchias longicauda (Peter, 1877)	Smith (2012), Wirtz et al. (2013)
Anguilliformes	Muraenidae	Channomuraena vittata (Richardson, 1845)	Duarte Lopes et al. (2001), Wirtz et al. (2013)
Anguilliformes	Muraenidae	Echidna peli (Kaup, 1856)	Férnandez-Gil et al. (2013), Wirtz et al. (2013), González et al. (2021b), Mascarenhas (2022)
Anguilliformes	Muraenidae	Enchelycore anatina (Lowe, 1838)	Lipej et al. (2011), Wirtz et al. (2013), González et al. (2021b)
Anguilliformes	Muraenidae	Enchelycore nigricans (Bonnaterre, 1788)	Brito et al. (1999), Férnandez-Gil et al. (2013), González et al. (2021b)
Anguilliformes	Muraenidae	Gymnothorax afer Bloch, 1795	Brito et al. (1999), González et al. (2021b

Order	Family	cientific Name	References
Anguilliformes	Muraenidae	Gymnothorax bacalladoi Böhlke & Brito, 1987	Brito et al. (1999), González et al. (2021b)
Anguilliformes	Muraenidae	Gymnothorax maderensis (Johnson, 1862)	González et al. 2014, González et al. 2021b
Anguilliformes	Muraenidae	Gymnothorax miliaris (Kaup, 1856)	Brito et al. (1999), González et al. (2021b), Mascarenhas (2022)
Anguilliformes	Muraenidae	Gymnothorax polygonius Poey, 1875	Monteiro (2008), González et al. (2021b)
Anguilliformes	Muraenidae	Gymnothorax unicolor (Delaroche, 1809)	Brito et al. (1999), Férnandez-Gil et al. (2013), González et al. (2021b), Mascarenhas (2022)
Anguilliformes	Muraenidae	Gymnothorax vicinus (Castelnau, 1855)	Monteiro (2008), Férnandez-Gil et al. (2013), González et al. (2021b), Mascarenhas (2022)
Anguilliformes	Muraenidae	Monopenchelys acuta (Parr, 1930)	Brito et al. (1999), González et al. (2021b)
Anguilliformes	Muraenidae	Muraena augusti (Kaup, 1856)	Férnandez-Gil et al. (2013), González et al. (2021b), Mascarenhas (2022)
Anguilliformes	Muraenidae	Muraena helena Linnaeus, 1758	Brito et al. (1999), Férnandez-Gil et al. (2013), González et al. (2021b)
Anguilliformes	Muraenidae	Muraena melanotis (Kaup, 1859)	Brito et al. (1999), Férnandez-Gil et al. (2013), González et al. (2021b), Mascarenhas (2022)
Anguilliformes	Muraenidae	Muraena robusta Osório, 1911	Monteiro (2008), Férnandez-Gil et al. (2013), González et al. (2021b)
Anguilliformes	Muraenidae	Uropterygius wheeleri Blache, 1967	Quéro et al. (1990), Wirtz et al. (2013), González et al. (2021b)
Anguilliformes	Ophichthidae	Apterichtus anguiformis (Peters, 1877)	Quéro et al. (1990), Wirtz et al. (2013)
Anguilliformes	Ophichthidae	Apterichtus monodi (Roux, 1966)	Wirtz et al. (2013), Carpenter and De Angelis (2016a)
Anguilliformes	Ophichthidae	Brachysomophis atlanticus Blache & Saldanha, 1972	McCosker and Wirtz (2008)
Anguilliformes	Ophichthidae	Callechelys guineensis (Osório, 1893)	Wirtz (2022a)

Order	Family	cientific Name	References
Anguilliformes	Ophichthidae	Callechelys muraena Jordan & Evermann, 1887	Menut and Bérenger (2016), Wirtz (2022b)
Anguilliformes	Ophichthidae	Echelus myrus (Linnaeus, 1758)	Wirtz et al. (2013)
Anguilliformes	Ophichthidae	Echelus pachyrhynchus (Vaillant, 1888)	González et al. (2014)
Anguilliformes	Ophichthidae	Myrichthys pardalis (Valenciennes, 1839)	González et al. (2014), Mascarenhas (2022)
Anguilliformes	Ophichthidae	Mystriophis rostellatus (Richardson, 1848)	Menezes et al. (2004), Wirtz et al. (2013)
Anguilliformes	Ophichthidae	Ophichthus ophis (Linnaeus, 1758)	D' Oliveira (2010), Menut and Bérenger (2016), Wirtz (2022b)
Anguilliformes	Ophichthidae	Phaenomonas longissima (Cadenat & Marchal, 1963)	Wirtz et al. (2013), González et al. (2014)
Anguilliformes	Nettastomatidae	Heteroconger longissimus Günther, 1870	Wirtz et al. (2013)
Anguilliformes	Congridae	Ariosoma balearicum (Delaroche, 1809)	D' Oliveira (2010), Wirtz et al. (2013)
Anguilliformes	Congridae	Conger conger (Linnaeus, 1758)	González and Tariche (2008), Wirtz et al. (2013)
Anguilliformes	Congridae	Gnathophis mystax (Delaroche, 1809)	González et al. (2014)
Anguilliformes	Congridae	Paraconger notialis Kanazawa, 1961	Monteiro (2008), Menut and Bérenger (2016)
Clupeiformes	Clupeidae	Sardinella aurita Valenciennes, 1847	Reiner (1996), Wirtz et al. (2013)
Clupeiformes	Clupeidae	Sardinella maderensis (Lowe, 1838)	Monteiro (1998), Wirtz et al. (2013)
Siluriformes	Ariidae	Carlarius latiscutatus (Günther, 1864)	Freitas et al. (2018)
Aulopiformes	Aulopidae	Aulopus filamentosus (Bloch, 1792)	Menezes et al. (2015)
Aulopiformes	Chlorophthalmidae	Chlorophthalmus agassizi Bonaparte, 1840	Orrell (2011), Carpenter and De Angelis (2016a)
Aulopiformes	Synodontidae	Saurida parri Norman, 1935	Carpenter and De Angelis (2016a)

Order	Family	cientific Name	References
Aulopiformes	Synodontidae	Saurida brasiliensis Norman, 1935	Wieber (2011)
Aulopiformes	Synodontidae	Synodus saurus (Linnaeus, 1758)	Menezes et al. (2004), Menezes et al. (2015), Menut and Bérenger (2016)
Aulopiformes	Synodontidae	Synodus synodus (Linnaeus, 1758)	Menezes et al. (2015), Menut and Bérenger (2016)
Aulopiformes	Synodontidae	Trachinocephalus myops (Forster, 1801)	Quéro et al. (1990)
Lampriformes	Lampridae	Lampris guttatus (Brünnich, 1788)	Carpenter and De Angelis (2016a)
Lampriformes	Trachipteridae	Zu cristatus (Bonelli, 1819)	Wirtz et al. (2013)
Polymixiiformes	Polymixiidae	Polymixia nobilis Lowe,	González et al. (2014)
Zeiformes	Zeidae	Zenopsis conchifer (Lowe, 1852)	Menezes et al. (2015)
Zeiformes	Zeidae	Zeus faber Linnaeus, 1758	Krakstad et al. (2011), Wirtz et al. (2013)
Gadiformes	Phycidae	Phycis phycis (Linnaeus, 1766)	Menezes et al. (2004), Wirtz et al. (2013), Menezes et al. (2015)
Gadiformes	Merlucciidae	Merluccius senegalensis Cadenat, 1950	Wirtz et al. (2013)
Gadiformes	Moridae	Gadella imberbis (Vaillant, 1888)	González et al. (2010), González et al. (2014), Biscoito and Gonzaléz (2017)
Gadiformes	Moridae	Physiculus cyanostrophus Anderson & Tweddle, 2002	González et al. (2010), González et al. (2014)
Gadiformes	Moridae	Physiculus dalwigki Kaup, 1858	Menezes et al. (2004), González et al. (2010), Menezes et al. (2015)
Gadiformes	Macrouridae	Coelorinchus caelorhincus (Risso, 1810)	Wieber (2011b), Carpenter and De Angelis (2016a)
Gadiformes	Macrouridae	Nezumia africana (Iwamoto, 1970)	González et al. (2014)
Trachichthyiformes	Trachichthyidae	Gephyroberyx darwinii (Johnson, 1866)	Menezes et al. (2004), González et al. (2014)
Trachichthyiformes	Trachichthyidae	Hoplostethus cadenati Quéro, 1974	Reiner (1996), Carpenter and De Angelis (2016a)

Order	Family	cientific Name	References
Trachichthyiformes	Trachichthyidae	Hoplostethus mediterraneus Cuvier, 1829	Reiner (1996), Carpenter and De Angelis (2016a)
Holocentriformes	Holocentridae	Comiger spinosus Agassiz, 1831	Wirtz et al. (2013)
Holocentriformes	Holocentridae	<i>Myripristis jacobus</i> Cuvier, 1829	Brito et al. (2006), Menezes et al. (2004), Menezes et al. (2015)
Holocentriformes	Holocentridae	Sargocentron hastatum (Cuvier, 1829)	Wirtz et al. (2013)
Ophidiiformes	Ophidiidae	Brotula barbata (Bloch & Schneider, 1801)	Menezes et al. (2004), Wirtz et al. (2013)
Ophidiiformes	Ophidiidae	Ophidion saldanhai Matallanas & Brito, 1999	Matallanas and Brito (1999), Wirtz et al. (2013)
Ophidiiformes	Carapidae	Carapus acus (Brünnich, 1768)	Wirtz et al. (2013)
Ophidiiformes	Bythitidae	Grammonus longhursti (Cohen, 1964)	Wirtz (2009)
Batrachoidiformes	Batrachoididae	Halobatrachus didactylus (Bloch & Schneider, 1801)	Reiner (1996), Wirtz et al. (2013)
Gobiiformes	Apogonidae	Apogon imberbis (Linnaeus, 1758)	Brito et al. (1999), Freitas et al. (2019a)
Gobiiformes	Apogonidae	Paroncheilus affinis (Poey, 1875)	Brito et al. (1999), Kuiter and Kozawa (2019)
Gobiiformes	Gobiidae	Bathygobius casamancus (Rochebrune, 1880)	Schliewen (2011), Menut and Bérenger (2016)
Gobiiformes	Gobiidae	Bathygobius soporator (Valenciennes, 1837)	Schliewen (2011), Menut and Bérenger (2016)
Gobiiformes	Gobiidae	Didogobius kochi Van Tassell, 1988	Schliewen (2011), Wirtz et al. (2013)
Gobiiformes	Gobiidae	Didogobius wirtzi Schliewen & Kovačić, 2008	Schliewen and Kovačić (2008), Menut and Bérenger (2016)
Gobiiformes	Gobiidae	Gnatholepis thompsoni Jordan, 1904	Larson and Buckle (2012), Menut and Bérenger (2016)
Gobiiformes	Gobiidae	Gobius ateriformis Brito & Miller, 2001	Brito and Miller (2001), Menut and Bérenger (2016)
Gobiiformes	Gobiidae	Gobius salamansa Iglésias, Frotté & Sellos, 2015	Iglésias et al. (2015)

Order	Family	cientific Name	References
Gobiiformes	Gobiidae	Gobius tetrophthalmus Brito & Miller, 2001	Brito and Miller (2001), Freitas (2014)
Gobiiformes	Gobiidae	Marcelogobius janetarum (Schliewen, Wirtz & Kovačić, 2018)	Schliewen et al. (2018)
Gobiiformes	Gobiidae	Mauligobius nigri (Günther, 1861)	Brito and Miller (2001), Schliewen (2011), Freitas (2014)
Gobiiformes	Gobiidae	Vanneaugobius canariensis Van Tassel, Miller & Brito, 1988	Brito et al. (2006), Schliewen (2011), Wirtz et al. (2013)
Syngnathiformes	Dactylopteridae	Dactylopterus volitans (Linnaeus, 1758)	Brito et al. (1999), Monteiro (2008), Menu and Bérenger (2016)
Syngnathiformes	Mullidae	Mulloidichthys martinicus (Cuvier, 1829)	Brito et al. (1999), Monteiro (2008), Menu and Bérenger (2016)
Syngnathiformes	Mullidae	Mullus africanus Vasil'eva, 2011	Wirtz et al. (2013)
Syngnathiformes	Mullidae	Pseudupeneus prayensis (Cuvier, 1829)	Brito et al. (1999), Monteiro (2008), Menu and Bérenger (2016)
Syngnathiformes	Callionymidae	Callionymus bairdi Jordan, 1888	Brito et al. (1999), Wirtz et al. (2013), Menut and Bérenger (2016)
Syngnathiformes	Callionymidae	Synchiropus phaeton (Günther, 1861)	Krakstad et al. (2011)
Syngnathiformes	Aulostomidae	Aulostomus strigosus Wheeler, 1955	Brito et al. (1999), Menut and Bérenger (2016), Mascarenhas (2022)
Syngnathiformes	Fistulariidae	Fistularia petimba Lacepède, 1803	Brito et al. (1999), Menezes et al. (2004), Wirtz et al. (2013)
Syngnathiformes	Fistulariidae	Fistularia tabacaria Linnaeus, 1758	Brito et al. (1999), Menut and Bérenger (2016), Mascarenhas (2022)
Syngnathiformes	Centriscidae	Macroramphosus scolopax (Linnaeus, 1758)	Brito et al. (1999), Wirtz et al. (2013)
Syngnathiformes	Syngnathidae	Hippocampus algiricus Kaup, 1856	Wirtz et al. (2013), Menut and Bérenger (2016)
Scombriformes	Ariommatidae	Ariomma melana (Ginsburg, 1954)	Krakstad et al. (2011)
Scombriformes	Stromateidae	Stromateus fiatola Linnaeus, 1758	Wirtz et al. (2013)

Order	Family	cientific Name	References
Scombriformes	Pomatomidae	Pomatomus saltatrix (Linnaeus, 1766)	Monteiro (1998), Wirtz et al. (2013)
Scombriformes	Scombridae	Acanthocybium solandri (Cuvier, 1832)	Monteiro (2008), Wirtz et al. (2013)
Scombriformes	Scombridae	Auxis rochei (Risso, 1810)	González and Tariche (2008), Wirtz et al. (2013)
Scombriformes	Scombridae	Auxis thazard (Lacepède, 1800)	Wirtz et al. (2013), Mascarenhas (2022)
Scombriformes	Scombridae	Euthynnus alletteratus (Rafinesque, 1810)	Wirtz et al. (2013), Menut and Bérenger (2016)
Scombriformes	Scombridae	Katsuwonus pelamis (Linnaeus, 1758)	Wirtz et al. (2013)
Scombriformes	Scombridae	Sarda sarda (Bloch, 1793)	Brito et al. (1999), Wirtz et al. (2013)
Scombriformes	Scombridae	Scomber colias Gmelin, 1789	Quéro et al. (1990), Brás (2014)
Scombriformes	Scombridae	Scomberomorus tritor (Cuvier, 1832)	Reiner (1996), Wirtz et al. (2013)
Scombriformes	Scombridae	Thunnus alalunga (Bonnaterre, 1788)	Reiner (1996), Wirtz et al. (2013), Carpenter and De Angelis (2016a)
Scombriformes	Scombridae	Thunnus albacares (Bonnaterre, 1788)	Wirtz et al. (2013), Carpenter and De Angelis (2016a)
Scombriformes	Scombridae	Thunnus obesus (Lowe, 1839)	González and Tariche (2008), Wirtz et al. (2013), Carpenter and De Angelis (2016a)
Scombriformes	Scombridae	Thunnus thynnus (Linnaeus, 1758)	Reiner (1996), Di Natale and Rubio (2013 , Carpenter and De Angelis (2016a)
Scombriformes	Gempylidae	Promethichthys prometheus (Cuvier, 1832)	González et al. (2014)
Carangiformes	Sphyraenidae	Sphyraena barracuda (Edwards, 1771)	Wirtz et al. (2013)
Carangiformes	Sphyraenidae	Sphyraena guachancho Cuvier, 1829	Wirtz et al. (2013)
Carangiformes	Sphyraenidae	Sphyraena viridensis Cuvier, 1829	Wirtz et al. (2013), Menut and Bérenger (2016)
Carangiformes	Polynemidae	Galeoides decadactylus (Bloch, 1795)	Brito et al. (1999), Wirtz et al. (2013)

Order	Family	cientific Name	References
Carangiformes	Citharidae	Citharus linguatula (Linnaeus, 1758)	Reiner (1996), Wirtz et al. (2013)
Carangiformes	Cyclopsettidae	Citharichthys stampflii (Steindachner, 1894)	Monteiro (2008), Wirtz et al. (2013)
Carangiformes	Cyclopsettidae	Syacium guineense (Bleeker, 1862)	Brito et al. (1999), Wirtz et al. (2013)
Carangiformes	Bothidae	Arnoglossus imperialis (Rafinesque, 1810)	Krakstad et al. (2011)
Carangiformes	Bothidae	Amoglossus thori Kyle, 1913	Quéro et al. (1990), Wirtz et al. (2013)
Carangiformes	Bothidae	Bothus podas (Delaroche, 1809)	Wirtz et al. (2013), Mascarenhas (2022)
Carangiformes	Soleidae	Microchirus hexophthalmus (Bennett, 1831)	Krakstad et al. (2011)
Carangiformes	Soleidae	Monochirus atlanticus Chabanaud, 1940	Wirtz (2017)
Carangiformes	Soleidae	Pegusa cadenati Chabanaud, 1954	Wirtz et al. (2013), Mascarenhas (2022)
Carangiformes	Cynoglossidae	Cynoglossus cadenati Chabanaud, 1947	Fermon et al. (2022)
Carangiformes	Cynoglossidae	Symphurus insularis Munroe, Brito & Hernández, 2000	Munroe et al. (2000)
Carangiformes	Xiphiidae	Xiphias gladius Linnaeus, 1758	Menezes et al. (2004), Carpenter and De Angelis (2016a), González et al. (2020)
Carangiformes	Istiophoridae	Istiophorus platypterus (Shaw, 1792)	Carpenter and De Angelis (2016a)
Carangiformes	Istiophoridae	Kajikia albida (Poey, 1860)	Carpenter and De Angelis (2016a), González et al. (2020)
Carangiformes	Istiophoridae	Makaira nigricans Lacepède, 1802	González et al. (2020)
Carangiformes	Istiophoridae	Tetrapturus pfluegeri Robins & de Sylva, 1963	González et al. (2020)
Carangiformes	Carangidae	Alectis ciliaris (Bloch, 1787)	Wirtz et al. (2013), Menut and Bérenger (2016)

Order	Family	cientific Name	References
Carangiformes	Carangidae	Caranx crysos (Mitchill, 1815)	Menezes et al. (2004), Wirtz et al. (2013) Menut and Bérenger (2016), González et al. (2020), Mascarenhas (2022)
Carangiformes	Carangidae	Caranx hippos (Linnaeus, 1766)	Wirtz et al. (2013), Mascarenhas (2022)
Carangiformes	Carangidae	Caranx latus Agassiz, 1831	Wirtz et al. (2013)
Carangiformes	Carangidae	Caranx lugubris Poey, 1860	Wirtz et al. (2013), González et al. (2020)
Carangiformes	Carangidae	Caranx rhonchus Geoffroy St. Hilaire, 1817	Wirtz et al. (2013)
Carangiformes	Carangidae	Caranx senegallus Cuvier, 1833	Wirtz et al. (2013)
Carangiformes	Carangidae	Decapterus macarellus (Cuvier, 1833)	Wirtz et al. (2013), González et al. (2020)
Carangiformes	Carangidae	Decapterus punctatus (Cuvier, 1829)	Wirtz et al. (2013), González et al. (2020)
Carangiformes	Carangidae	Decapterus tabl Berry, 1968	González et al. (2020)
Carangiformes	Carangidae	Elagatis bipinnulata (Quoy & Gaimard, 1825)	Wirtz et al. (2013), González et al. (2020)
Carangiformes	Carangidae	Lichia amia (Linnaeus, 1758)	Wirtz et al. (2013)
Carangiformes	Carangidae	Naucrates ductor (Linnaeus, 1758)	Wirtz et al. (2013)
Carangiformes	Carangidae	Pseudocaranx dentex (Bloch & Schneider, 1801)	Wirtz et al. (2013), Mascarenhas (2022)
Carangiformes	Carangidae	Selar crumenophthalmus (Bloch, 1793)	Wirtz et al. (2013), González et al. (2020) , Mascarenhas (2022)
Carangiformes	Carangidae	Selene dorsalis (Gill, 1863)	Wirtz et al. (2013), González et al. (2020) , Mascarenhas (2022)
Carangiformes	Carangidae	Seriola carpenteri Mather, 1971	Wirtz et al. (2013)
Carangiformes	Carangidae	Seriola dumerili (Risso, 1810)	Wirtz et al. (2013)
Carangiformes	Carangidae	Seriola fasciata (Bloch, 1793)	Wirtz et al. (2013), González et al. (2020)

Order	Family	cientific Name	References
Carangiformes	Carangidae	Seriola rivoliana Valenciennes, 1833	Wirtz et al. (2013), González et al. (2020) , Mascarenhas (2022)
Carangiformes	Carangidae	Trachinotus goreensis Cuvier, 1832	Wirtz et al. (2013), González et al. (2020)
Carangiformes	Carangidae	Trachinotus maxillosus Cuvier, 1832	Carpenter and De Angelis (2016a), Mascarenhas (2022)
Carangiformes	Carangidae	Trachinotus ovatus (Linnaeus, 1758)	Wirtz et al. (2013), González et al. (2020) , Mascarenhas (2022)
Carangiformes	Carangidae	Trachinotus teraia Cuvier,	Wirtz et al. (2013)
Carangiformes	Carangidae	Trachurus picturatus (Bowdich, 1825)	Wirtz et al. (2013)
Carangiformes	Carangidae	Trachurus trecae Cadenat,	Wirtz et al. (2013), González et al. (2020)
Carangiformes	Carangidae	Uraspis helvola (Forster, 1801)	Wirtz et al. (2013), Carpenter and De Angelis (2016a), Brito et al. (2017)
Carangiformes	Echeneidae	Echeneis naucrates Linnaeus, 1758	Wirtz et al. (2013)
Carangiformes	Echeneidae	Remora brachyptera (Lowe, 1839)	Wirtz et al. (2013)
Carangiformes	Echeneidae	Remora remora (Linnaeus, 1758)	Wirtz et al. (2013)
Carangiformes	Rachycentridae	Rachycentron canadum (Linnaeus, 1766)	Freitas et al. (2018)
Carangiformes	Coryphaenidae	Coryphaena equiselis Linnaeus, 1758	Wirtz et al. (2013)
Carangiformes	Coryphaenidae	Coryphaena hippurus Linnaeus, 1758	Wirtz et al. (2013), González et al. (2020)
Atheriniformes	Atherinidae	Atherina lopeziana Rossignol & Blache, 1961	Wirtz et al. (2013), Mascarenhas (2022)
Beloniformes	Scomberesocidae	Scomberesox saurus (Walbaum, 1792)	Wirtz et al. (2013)
Beloniformes	Belonidae	Ablennes hians (Valenciennes, 1846)	Wirtz et al. (2013), González et al. (2020)
Beloniformes	Belonidae	Belone acus Risso, 1827	Wirtz et al. (2013)

Order	Family	cientific Name	References
Beloniformes	Belonidae	Platybelone lovii (Günther, 1866)	Wirtz et al. (2013), Mascarenhas (2022)
Beloniformes	Belonidae	Tylosurus crocodilus (Péron & Lesueur, 1821	Wirtz et al. (2013)
Beloniformes	Belonidae	Tylosurus imperialis (Rafinesque, 1810)	Wirtz et al. (2013)
Beloniformes	Belonidae	Tylosurus rafale Collette & Parin, 1970	Wirtz et al. (2013), González et al. (2020)
Beloniformes	Hemiramphidae	Euleptorhamphus velox Poey, 1868	Wirtz et al. (2013)
Beloniformes	Hemiramphidae	Hemiramphus balao Lesueur, 1821	Wirtz et al. (2013)
Beloniformes	Hemiramphidae	Hemiramphus brasiliensis (Linnaeus, 1758)	Wirtz et al. (2013)
Beloniformes	Hemiramphidae	Oxyporhamphus similis Bruun, 1935	Wirtz et al. (2013)
Beloniformes	Exocoetidae	Cheilopogon cyanopterus (Valenciennes, 1847)	Wirtz et al. (2013)
Beloniformes	Exocoetidae	Cheilopogon exsiliens (Linnaeus, 1771)	Dooley et al. (2015)
Beloniformes	Exocoetidae	Cheilopogon furcatus (Mitchill, 1815)	Wirtz et al. (2013), Carpenter and De Angelis (2016a)
Beloniformes	Exocoetidae	Cheilopogon pinnatibarbatus (Bennett, 1831)	Wirtz et al. (2013), Carpenter and De Angelis (2016a)
Beloniformes	Exocoetidae	Exocoetus obtusirostris Günther, 1866	Wirtz et al. (2013), Carpenter and De Angelis (2016a)
Beloniformes	Exocoetidae	Exocoetus volitans Linnaeus, 1758	Wirtz et al. (2013), Carpenter and De Angelis (2016a)
Beloniformes	Exocoetidae	Prognichthys gibbifrons (Valenciennes, 1847)	Wirtz et al. (2013)
Cichliformes	Pomacentridae	Abudefduf hoefleri (Steindachner, 1881)	Wirtz et al. (2013), Carpenter and De Angelis (2016b), Mascarenhas (2022)
Cichliformes	Pomacentridae	Abudefduf saxatilis (Linnaeus, 1758)	Wirtz et al. (2013), Carpenter and De Angelis (2016b), Mascarenhas (2022)

Order	Family	cientific Name	References
Cichliformes	Pomacentridae	Abudefduf taurus (Müller & Troschel, 1848)	Wirtz et al. (2013), Carpenter and De Angelis (2016b), Mascarenhas (2022)
Cichliformes	Pomacentridae	Azurina multilineata (Guichenot, 1853)	Wirtz et al. (2013), Carpenter and De Angelis (2016b), Mascarenhas (2022)
Cichliformes	Pomacentridae	Chromis lubbocki Edwards, 1986	Wirtz et al. (2013), Carpenter and De Angelis (2016b), Mascarenhas (2022)
Cichliformes	Pomacentridae	Similiparma hermani (Steindachner, 1887)	Wirtz et al. (2013), Carpenter and De Angelis (2016b), Mascarenhas (2022)
Cichliformes	Pomacentridae	Similiparma lurida (Cuvier, 1830)	Wirtz et al. (2013), Carpenter and De Angelis (2016b)
Cichliformes	Pomacentridae	Stegastes imbricatus Jenyns, 1840	Wirtz et al. (2013), Carpenter and De Angelis (2016b), Mascarenhas (2022)
Mugiliformes	Mugilidae	Chelon bispinosus (Bowdich, 1825)	Wirtz et al. (2013), Carpenter and De Angelis (2016a), Mascarenhas (2022)
Mugiliformes	Mugilidae	Chelon labrosus (Risso, 1827)	Wirtz et al. (2013), Carpenter and De Angelis (2016a)
Mugiliformes	Mugilidae	Mugil bananensis (Pellegrin, 1927)	Wirtz et al. (2013), Mascarenhas (2022)
Mugiliformes	Mugilidae	Mugil capurrii (Perugia, 1892)	Wirtz et al. (2013)
Mugiliformes	Mugilidae	Mugil cephalus Linnaeus,	Freitas et al. (2018)
Mugiliformes	Mugilidae	Mugil curema Valenciennes, 1836	Wirtz et al. (2013)
Blenniiformes	Gobiesocidae	Apletodon barbatus Fricke, Wirtz & Brito, 2010	Wirtz et al. (2013)
Blenniiformes	Gobiesocidae	Diplecogaster pectoralis Briggs, 1955	Wirtz et al. (2013)
Blenniiformes	Blenniidae	Entomacrodus cadenati Springer, 1967	Wirtz et al. (2013), Menut and Bérenger (2016)
Blenniiformes	Blenniidae	Microlipophrys caboverdensis (Wirtz & Bath, 1989)	Wirtz et al. (2013), Menut and Bérenger (2016), Mascarenhas (2022)
Blenniiformes	Blenniidae	Ophioblennius atlanticus (Valenciennes, 1836)	Wirtz et al. (2013), Menut and Bérenger (2016), Mascarenhas (2022)

Order	Family	cientific Name	References
Blenniiformes	Blenniidae	Parablennius parvicornis (Valenciennes, 1836)	Wirtz et al. (2013), Menut and Bérenger (2016), Mascarenhas (2022)
Blenniiformes	Blenniidae	Parablennius salensis Bath, 1990	Wirtz et al. (2013), Menut and Bérenger (2016), Mascarenhas (2022)
Blenniiformes	Blenniidae	Scartella caboverdiana Bath, 1990	Wirtz et al. (2013), Menut and Bérenger (2016), Mascarenhas (2022)
Blenniiformes	Labrisomidae	Labrisomus nuchipinnis (Quoy & Gaimard, 1824)	Wirtz et al. (2013), Mascarenhas (2022)
Blenniiformes	Labrisomidae	Malacoctenus carrowi Wirtz, 2014	Wirtz (2014), Mascarenhas (2022)
Perciformes	Serranidae	Anthias anthias (Linnaeus, 1758)	Wirtz et al. (2013), González et al. (2014
Perciformes	Serranidae	Mycteroperca fusca (Lowe, 1838)	Wirtz et al. (2013), Menut and Bérenger (2016), González et al. (2020), Mascarenhas (2022)
Perciformes	Serranidae	Serranus atricauda Günther, 1874	Wirtz et al. (2013), Menut and Bérenger (2016), González et al. (2020)
Perciformes	Serranidae	Serranus cabrilla (Linnaeus, 1758)	Freitas et al. (2018)
Perciformes	Serranidae	Serranus heterurus (Cadenat, 1937)	Wirtz et al. 2013, Freitas et al. 2018
Perciformes	Epinephelidae	Cephalopholis taeniops (Valenciennes, 1828)	Wirtz et al. (2013), Menut and Bérenger (2016), González et al. (2020), Mascarenhas (2022)
Perciformes	Epinephelidae	Epinephelus costae (Steindachner, 1878)	Wirtz et al. (2013)
Perciformes	Epinephelidae	Epinephelus goreensis (Valenciennes, 1830)	Wirtz et al. (2013), González et al. (2014, González et al. (2020)
Perciformes	Epinephelidae	Epinephelus marginatus (Lowe, 1834)	Wirtz et al. (2013), Menut and Bérenger (2016), Freitas et al. (2019a), Mascarenhas (2022)
Perciformes	Liopropomatidae	Liopropoma emanueli Wirtz & Schliewen, 2012	Wirtz et al. (2013), Freitas (2014), Menut and Bérenger (2016)
Perciformes	Grammistidae	Pseudogramma guineensis (Norman, 1935)	Wirtz et al. (2013), Menut and Bérenger (2016)

Order	Family	cientific Name	References
Perciformes	Grammistidae	Rypticus saponaceus (Bloch & Schneider, 1801)	Wirtz et al. (2013), Menut and Bérenger (2016), Freitas et al. (2019a)
Perciformes	Trachinidae	Trachinus armatus Bleeker, 1861	Wirtz et al. (2013), Carpenter and De Angelis (2016b)
Perciformes	Trachinidae	Trachinus pellegrini Cadenat, 1937	Wirtz et al. (2013), Carpenter and De Angelis (2016b)
Perciformes	Triglidae	Chelidonichthys gabonensis (Poll & Roux, 1955)	Krakstad et al. (2011), Wirtz et al. (2013)
Perciformes	Triglidae	Chelidonichthys lastoviza (Bonnaterre, 1788)	Krakstad et al. (2011)
Perciformes	Triglidae	Lepidotrigla cadmani Regan, 1915	Wirtz et al. (2013)
Perciformes	Scorpaenidae	Helicolenus dactylopterus (Delaroche, 1809)	González et al. (2014), Menezes et al. (2015), González et al. (2020)
Perciformes	Scorpaenidae	Pontinus accraensis Norman, 1935	Menezes et al. (2015)
Perciformes	Scorpaenidae	Pontinus kuhlii (Bowdich, 1825)	González et al. (2014), Menezes et al. (2015), González et al. (2020)
Perciformes	Scorpaenidae	Scorpaena angolensis Norman, 1935	Wirtz et al. (2013), Menezes et al. (2015) Carpenter and De Angelis (2016a)
Perciformes	Scorpaenidae	Scorpaena elongata Cadenat, 1943	González et al. (2014), Menezes et al. (2015), Carpenter and De Angelis (2016a)
Perciformes	Scorpaenidae	Scorpaena laevis Troschel, 1866	Wirtz et al. (2013), González et al. (2014), Carpenter and De Angelis (2016a), Mascarenhas (2022)
Perciformes	Scorpaenidae	Scorpaena maderensis Valenciennes, 1833	Wirtz et al. (2013), Carpenter and De Angelis (2016a), Mascarenhas (2022)
Perciformes	Scorpaenidae	Scorpaena notata Rafinesque, 1810	Wirtz et al. (2013), Carpenter and De Angelis (2016a)
Perciformes	Scorpaenidae	Scorpaena scrofa Linnaeus, 1758	Wirtz et al. (2013), Menezes et al. (2015) Carpenter and De Angelis (2016a), González et al. (2020)
Perciformes	Scorpaenidae	Scorpaena stephanica Cadenat, 1943	Wirtz et al. (2013), Russell et al. (2015)

Order	Family	cientific Name	References
Perciformes	Scorpaenidae	Setarches guentheri Johnson, 1862	Carpenter and De Angelis (2016a)
Labriformes	Labridae	Acantholabrus palloni (Risso, 1810)	Wirtz et al. (2013), Carpenter and De Angelis (2016b), González et al. (2018)
Labriformes	Labridae	Bodianus scrofa (Valenciennes, 1839)	Wirtz et al. (2013), Menezes et al. (2015 González et al. (2020)
Labriformes	Labridae	Bodianus speciosus (Bowdich, 1825)	Wirtz et al. (2013), Menut and Bérenger (2016), Freitas et al. (2019a)
Labriformes	Labridae	Coris atlantica Günther, 1862	Wirtz et al. (2013), Menut and Bérenger (2016), Freitas et al. (2019a), Mascarenhas (2022)
Labriformes	Labridae	Doratonotus megalepis Günther, 1862	Wirtz et al. (2013), Carpenter and De Angelis (2016b)
Labriformes	Labridae	Lappanella fasciata (Cocco, 1833)	González et al. (2014)
Labriformes	Labridae	Scarus hoefleri (Steindachner, 1881)	Wirtz et al. (2013), Freitas et al. (2019a) Mascarenhas (2022)
Labriformes	Labridae	Sparisoma choati Rocha, Brito & Robertson, 2012	Wirtz et al. (2013), Freitas et al. (2019a) Mascarenhas (2022)
Labriformes	Labridae	Sparisoma cretense (Linnaeus, 1758)	Wirtz et al. (2013), Freitas et al. (2019a) Mascarenhas (2022)
Labriformes	Labridae	Sparisoma frondosum (Agassiz, 1831)	Freitas et al. (2014), Menut and Bérenge (2016)
Labriformes	Labridae	Thalassoma newtoni (Osório, 1891)	Reiner (2005) Fig. 7
Labriformes	Labridae	Thalassoma pavo (Linnaeus, 1758)	Wirtz et al. (2013), Menut and Bérenger (2016), Freitas et al. (2019a), Mascarenhas (2022)
Labriformes	Labridae	Xyrichtys novacula (Linnaeus, 1758)	Wirtz et al. (2013), Carpenter and De Angelis (2016b), Menut and Bérenger (2016), Mascarenhas (2022)
Labriformes	Uranoscopidae	<i>Uranoscopus cadenati</i> Poll, 1959	Wirtz et al. (2013), Menut and Bérenger (2016)
Labriformes	Uranoscopidae	Uranoscopus polli Cadenat,	Reiner (1996), Krakstad et al. (2011)

Order	Family	cientific Name	References
Labriformes	Pinguipedidae	Parapercis atlantica (Vaillant, 1887)	Krakstad et al. (2011), Carpenter and De Angelis (2016b)
Centrarchiformes	Girellidae	Girella stuebeli Troschel, 1866	Wirtz et al. (2013), Freitas (2014), Menut and Bérenger (2016), Mascarenhas (2022)
Centrarchiformes	Kyphosidae	Kyphosus bigibbus Lacepède, 1801	Carpenter and De Angelis (2016b), Knudsen and Clements (2016)
Centrarchiformes	Kyphosidae	Kyphosus sectatrix (Linnaeus, 1758)	Knudsen and Clements (2013), Knudsen and Clements (2016)
Centrarchiformes	Kyphosidae	Kyphosus vaigiensis (Quoy & Gaimard, 1825)	Bañon and Carlos (2022)
Acropomatiformes	Epigonidae	Epigonus constanciae (Giglioli, 1880)	Wirtz et al. (2013)
Acropomatiformes	Polyprionidae	Polyprion americanus (Bloch & Schneider, 1801)	Wirtz et al. (2013)
Acanthuriformes	Gerreidae	Eucinostomus melanopterus (Bleeker, 1863)	Wirtz et al. (2013), Menut and Bérenger (2016), Mascarenhas (2022)
Acanthuriformes	Gerreidae	Gerres nigri Günther, 1859	Wirtz et al. (2013)
Acanthuriformes	Ephippidae	Chaetodipterus lippei Steindachner, 1895	Wirtz et al. (2013), Carpenter and De Angelis (2016b)
Acanthuriformes	Ephippidae	Ephippus goreensis Cuvier, 1831	Wirtz et al. (2013), Carpenter and De Angelis (2016b), Menut and Bérenger (2016)
Acanthuriformes	Sciaenidae	Sciaena umbra Linnaeus, 1758	Wirtz et al. (2013), Mascarenhas (2022)
Acanthuriformes	Sciaenidae	Umbrina ronchus Valenciennes, 1843	Wirtz et al. (2013), Freitas et al. (2019a)
Acanthuriformes	Haemulidae	Parapristipoma humile (Bowdich, 1825)	Wirtz et al. (2013), Freitas et al. (2019a), Mascarenhas (2022)
Acanthuriformes	Haemulidae	Parapristipoma macrops (Pellegrin, 1912)	González and Tariche (2008)
Acanthuriformes	Haemulidae	Parapristipoma octolineatum (Valenciennes, 1833)	Wirtz et al. (2013), Carpenter and De Angelis (2016b), Freitas et al. (2019a)
Acanthuriformes	Haemulidae	Pomadasys incisus (Bowdich, 1825)	Wirtz et al. (2013), Krakstad et al. (2011) Menezes et al. (2015)

Order	Family	cientific Name	References
Acanthuriformes	Haemulidae	Pomadasys jubelini (Cuvier, 1830)	Mascarenhas (2022)
Acanthuriformes	Haemulidae	Pomadasys perotaei (Cuvier, 1830)	Wirtz et al. (2013)
Acanthuriformes	Haemulidae	Pomadasys rogerii (Cuvier, 1830)	Wirtz et al. (2013), Menut and Bérenger (2016)
Acanthuriformes	Lobotidae	Lobotes surinamensis (Bloch, 1790)	Wirtz et al. (2013)
Acanthuriformes	Emmelichthyidae	Erythrocles monodi Poll & Cadenat, 1954	Menezes et al. (2015)
Acanthuriformes	Lutjanidae	Apsilus fuscus Valenciennes, 1830	Wirtz et al. (2013), González et al. (2020
Acanthuriformes	Lutjanidae	Lutjanus agennes Bleeker, 1863	Wirtz et al. (2013), Menezes et al. (2015)
Acanthuriformes	Lutjanidae	Lutjanus dentatus (Duméril, 1861)	Freitas et al. (2018)
Acanthuriformes	Lutjanidae	Lutjanus fulgens (Valenciennes, 1830)	Wirtz et al. (2013), Freitas et al. (2018), González et al. (2020)
Acanthuriformes	Lutjanidae	Lutjanus goreensis (Valenciennes, 1830)	Wirtz et al. (2013), Freitas et al. (2018)
Acanthuriformes	Latilidae	Branchiostegus semifasciatus (Norman, 1931)	Freitas et al. (2018)
Acanthuriformes	Pomacanthidae	Holacanthus africanus Cadenat, 1951	Wirtz et al. 2013, Menut and Bérenger 2016, Freitas et al. 2019a
Acanthuriformes	Chaetodontidae	Chaetodon hoefleri Steindachner, 1881	Wirtz et al. (2013), Carpenter and De Angelis (2016b)
Acanthuriformes	Chaetodontidae	Chaetodon robustus Günther, 1860	Wirtz et al. (2013), Carpenter and De Angelis (2016b), Mascarenhas (2022)
Acanthuriformes	Chaetodontidae	Prognathodes marcellae (Poll, 1950)	Wirtz et al. (2013), Carpenter and De Angelis (2016b), Menut and Bérenger (2016)
Acanthuriformes	Luvaridae	Luvarus imperialis Rafinesque, 1810	Reiner (1996)
Acanthuriformes	Acanthuridae	Acanthurus chirurgus (Bloch, 1787)	Brito et al. (1999), Wirtz et al. (2013)

Order	Family	cientific Name	References
Acanthuriformes	Acanthuridae	Acanthurus monroviae Steindachner, 1876	Wirtz et al. (2013), Menut and Bérenger (2016), Freitas et al. (2019a), Mascarenhas (2022)
Acanthuriformes	Lethrinidae	Lethrinus atlanticus Valenciennes, 1830	Wirtz et al. (2013), Menut and Bérenger (2016), González et al. (2020)
Acanthuriformes	Sparidae	Boops boops (Linnaeus, 1758)	Wirtz et al. (2013), González et al. (2020) , Mascarenhas (2022)
Acanthuriformes	Sparidae	Dentex macrophthalmus (Bloch, 1791)	Wirtz et al. (2013), Menezes et al. (2015)
Acanthuriformes	Sparidae	Diplodus fasciatus (Valenciennes, 1830)	Wirtz et al. (2013), Menut and Bérenger (2016), Mascarenhas (2022)
Acanthuriformes	Sparidae	Diplodus lineatus (Valenciennes, 1830)	Freitas et al. (2019a), González et al. (2020), Mascarenhas (2022)
Acanthuriformes	Sparidae	Diplodus prayensis Cadenat, 1964	Wirtz et al. (2013), Menut and Bérenger (2016), Mascarenhas (2022)
Acanthuriformes	Sparidae	<i>Diplodus puntazzo</i> (Walbaum, 1792)	Wirtz et al. (2013)
Acanthuriformes	Sparidae	Lithognathus mormyrus (Linnaeus, 1758)	Wirtz et al. (2013), Menezes et al. (2015), Menut and Bérenger (2016)
Acanthuriformes	Sparidae	Oblada melanurus (Linnaeus, 1758)	Wirtz et al. (2013), Morri et al. (2000)
Acanthuriformes	Sparidae	Pagellus acarne (Risso, 1827)	Wirtz et al. (2013), Menezes et al. (2015), González et al. (2020)
Acanthuriformes	Sparidae	Pagellus erythrinus (Linnaeus, 1758)	Wirtz et al. (2013), Carpenter and De Angelis (2016b)
Acanthuriformes	Sparidae	Pagrus africanus Akazaki, 1962	Wirtz et al. (2013), Menezes et al. (2015), González et al. (2020)
Acanthuriformes	Sparidae	Pagrus auriga Valenciennes, 1843	Wirtz et al. (2013), Freitas et al. (2018)
Acanthuriformes	Sparidae	Sarpa salpa (Linnaeus, 1758)	Wirtz et al. (2013), Carpenter and De Angelis (2016b), Mascarenhas (2022)
Acanthuriformes	Sparidae	Spicara melanurus (Valenciennes, 1830)	Wirtz et al. (2013), Freitas et al. (2019a), Mascarenhas (2022)
Acanthuriformes	Sparidae	Spondyliosoma cantharus (Linnaeus, 1758)	Wirtz et al. (2013), Menezes et al. (2015), González et al. (2020)

Order	Family	cientific Name	References
Acanthuriformes	Sparidae	Virididentex acromegalus (Osório, 1911)	Wirtz et al. (2013), Menezes et al. (2015), González et al. (2020), Mascarenhas (2022)
Acanthuriformes	Cepolidae	Cepola pauciradiata Cadenat, 1950	Wirtz et al. (2013)
Acanthuriformes	Priacanthidae	Heteropriacanthus cruentatus (Lacepède, 1801)	Wirtz et al. (2013), Menut and Bérenger (2016), Mascarenhas (2022)
Acanthuriformes	Priacanthidae	Heteropriacanthus fulgens (Lowe, 1838)	Fernandez-Silva and Ho (2017), Freitas et al. (2019a)
Acanthuriformes	Priacanthidae	Priacanthus arenatus Cuvier, 1829	Wirtz et al. (2013), González et al. (2020) , Mascarenhas (2022)
Acanthuriformes	Caproidae	Antigonia capros Lowe,	Krakstad et al. (2011), González et al. (2014)
Acanthuriformes	Caproidae	Capros aper (Linnaeus, 1758)	Wirtz et al. (2013), González et al. (2014) , Carpenter and De Angelis (2016b)
Lophiiformes	Lophiidae	Lophius vaillanti Regan, 1903	Quéro et al. (1990), Menezes et al. (2015), Carpenter and De Angelis (2016a), Freitas et al. (2018)
Lophiiformes	Antennariidae	Abantennarius nummifer (Cuvier, 1817)	D' Oliveira (2010), Wirtz et al. (2013), Wirtz (2022c)
Lophiiformes	Antennariidae	Antennarius multiocellatus (Valenciennes, 1837)	Wirtz (2022c)
Lophiiformes	Antennariidae	Antennarius pardalis (Valenciennes, 1837)	Mascarenhas (2022), Wirtz (2022c)
Lophiiformes	Antennariidae	Antennarius striatus (Shaw, 1794)	Wirtz et al. (2013), Mascarenhas (2022), Wirtz (2022c)
Lophiiformes	Antennariidae	Fowlerichthys senegalensis Cadenat, 1959	Wirtz et al. (2013), Menut and Bérenger (2016), Mascarenhas (2022), Wirtz (2022c)
Lophiiformes	Antennariidae	Histrio histrio (Linnaeus, 1758)	Menut and Bérenger (2016), Wirtz et al. (2016), Wirtz (2022c)
Tetraodontiformes	Molidae	Masturus lanceolatus (Liénard, 1840)	Wirtz et al. (2013)
Tetraodontiformes	Molidae	Mola alexandrini (Ranzani,	D' Oliveira (2010), Wirtz and Biscoito (2019)

Order	Family	cientific Name	References
Tetraodontiformes	Molidae	Ranzania laevis (Pennant, 1776)	Wirtz et al. (2013)
Tetraodontiformes	Diodontidae	Chilomycterus mauretanicus (Le Danois, 1954)	Wirtz et al. (2013), Mascarenhas (2022)
Tetraodontiformes	Diodontidae	Chilomycterus reticulatus (Linnaeus, 1758)	Wirtz et al. (2013), Menezes et al. (2015), Menut and Bérenger (2016), Mascarenhas (2022)
Tetraodontiformes	Diodontidae	Diodon eydouxii Brisout de Barneville, 1846	Rui Freitas person. obser.; Fig. 8
Tetraodontiformes	Diodontidae	Diodon holocanthus Linnaeus, 1758	Wirtz et al. (2013), Menut and Bérenger (2016), Freitas et al. (2019b), Mascarenhas (2022)
Tetraodontiformes	Diodontidae	Diodon hystrix Linnaeus, 1758	Wirtz et al. (2013), Menut and Bérenger (2016), Freitas et al. (2019b), Mascarenhas (2022)
Tetraodontiformes	Tetraodontidae	Canthigaster capistrata (Lowe, 1839)	Wirtz et al. (2013), Menut and Bérenger (2016), Freitas et al. (2019a), Mascarenhas (2022)
Tetraodontiformes	Tetraodontidae	Canthigaster supramacula Moura & Castro, 2002	Wirtz et al. (2013)
Tetraodontiformes	Tetraodontidae	Lagocephalus lagocephalus (Linnaeus, 1758)	Wirtz et al. (2013), Menezes et al. (2015)
Tetraodontiformes	Tetraodontidae	Sphoeroides marmoratus (Lowe, 1838)	Wirtz et al. (2013), Menut and Bérenger (2016), Freitas et al. (2019a), Mascarenhas (2022)
Tetraodontiformes	Tetraodontidae	Sphoeroides pachygaster (Müller & Troschel, 1848)	Wirtz et al. (2013), Menezes et al. (2015)
Tetraodontiformes	Monacanthidae	Aluterus heudelotii Hollard, 1855	Wirtz et al. (2013), Krakstad et al. (2011), Menut and Bérenger (2016), Mascarenhas (2022)
Tetraodontiformes	Monacanthidae	Aluterus monoceros (Linnaeus, 1758)	Krakstad et al. (2011)
Tetraodontiformes	Monacanthidae	Aluterus scriptus (Osbeck, 1765)	Wirtz et al. (2013), Krakstad et al. (2011), Menut and Bérenger (2016)
Tetraodontiformes	Monacanthidae	Aluterus schoepfii (Walbaum, 1792)	Wirtz et al. (2013), Krakstad et al. (2011)

Order	Family	cientific Name	References
Tetraodontiformes	Monacanthidae	Cantherhines macrocerus (Hollard, 1853)	Wirtz et al. (2013)
Tetraodontiformes	Monacanthidae	Stephanolepis hispida (Linnaeus, 1766)	Krakstad et al. (2011), Wirtz et al. (2013), Menut and Bérenger (2016), Mascarenhas (2022)
Tetraodontiformes	Balistidae	Balistes capriscus Gmelin, 1789	Wirtz et al. (2013), Menezes et al. (2015)
Tetraodontiformes	Balistidae	Balistes punctatus Gmelin, 1789	Wirtz et al. (2013), Freitas et al. (2019a), Mascarenhas (2022)
Tetraodontiformes	Balistidae	Balistes vetula Linnaeus, 1758	Wirtz et al. (2013)
Tetraodontiformes	Balistidae	Canthidermis maculata (Bloch, 1786)	Wirtz et al. (2013)
Tetraodontiformes	Balistidae	Canthidermis sufflamen (Mitchill, 1815)	Wirtz et al. (2013), Menezes et al. (2015), Freitas et al. (2019a)
Tetraodontiformes	Balistidae	Melichthys niger (Bloch, 1786)	Wirtz et al. (2013)
Tetraodontiformes	Balistidae	Rhinecanthus aculeatus (Linnaeus, 1758)	Wirtz et al. (2013)

Table 3.

Higher taxomomic levels (class, order and family) with the number of families by order and species by family.

Class	Order	Family	Family by Order	Species by Family
Elasmobranchii				
	Hexanchiformes		1	
		Hexanchidae		2
	Orectolobiformes		2	
		Rhincodontidae		1
		Ginglymostomatidae		1
	Lamniformes		4	
		Odontaspididae		2
		Alopiidae		2
		Cetorhinidae		1

Class	Order	Family	Family by Order	Species by Family
		Lamnidae		3
	Carcharhiniformes		6	
		Pseudotriakidae		1
		Leptochariidae		1
		Triakidae		1
		Hemigaleidae		1
		Carcharhinidae		14
		Sphyrnidae		3
	Squaliformes		1	
		Squalidae		1
	Torpediniformes		1	
		Torpedinidae		2
	Rhinopristiformes		1	
		Glaucostegidae		1
	Rajiformes		1	
		Rajidae		1
	Myliobatiformes		5	
		Dasyatidae		5
		Gymnuridae		1
		Aetobatidae		1
		Myliobatidae		1
		Mobulidae		4
Actinopteri				
	Elopiformes		2	
		Elopidae		1
		Megalopidae		1
	Albuliformes		1	
		Albulidae		2
	Anguilliformes		6	
		Synaphobranchidae		1

Class	Order	Family	Family by Order	Species by Family
		Myrocongridae		1
		Muraenidae		18
		Ophichthidae		11
		Nettastomatidae		1
		Congridae		4
	Clupeiformes		1	
		Clupeidae		2
	Siluriformes		1	
		Ariidae		1
	Aulopiformes		3	
		Aulopidae		1
		Chlorophthalmidae		1
		Synodontidae		5
	Lampriformes		2	
		Lampridae		1
		Trachipteridae		1
	Polymixiiformes		1	
		Polymixiidae		1
	Zeiformes		1	
		Zeidae		2
	Gadiformes		4	
		Phycidae		1
		Merlucciidae		1
		Moridae		3
		Macrouridae		2
	Trachichthyiformes		1	
		Trachichthyidae		3
	Beryciformes		1	
		Holocentridae		3
	Ophidiiformes		3	

Class	Order	Family	Family by Order	Species by Family
		Ophidiidae		2
		Carapidae		1
		Bythitidae		1
	Batrachoidiformes		1	
		Batrachoididae		1
	Gobiiformes		2	
		Apogonidae		2
		Gobiidae		11
	Syngnathiformes		7	
		Dactylopteridae		1
		Mullidae		3
		Callionymidae		2
		Aulostomidae		1
		Fistulariidae		2
		Centriscidae		1
		Syngnathidae		1
	Scombriformes		5	
		Ariommatidae		1
		Stromateidae		1
		Pomatomidae		1
		Scombridae		12
		Gempylidae		1
	Carangiformes		13	
		Sphyraenidae		3
		Polynemidae		1
		Citharidae		1
		Cyclopsettidae		2
		Bothidae		3
		Soleidae		3
		Cynoglossidae		2

Class	Order	Family	Family by Order	Species by Family
		Xiphiidae		1
		Istiophoridae		4
		Carangidae		27
		Echeneidae		3
		Rachycentridae		1
		Coryphaenidae		2
	Atheriniformes		1	
		Atherinidae		1
	Beloniformes		4	
		Scomberesocidae		1
		Belonidae		6
		Hemiramphidae		4
		Exocoetidae		7
	Cichliformes		1	
		Pomacentridae		8
	Mugiliformes		1	
		Mugilidae		6
	Blenniiformes		3	
		Gobiesocidae		2
		Blenniidae		6
		Labrisomidae		2
	Perciformes		10	
		Serranidae		5
		Epinephelidae		4
		Liopropomatidae		1
		Grammistidae		2
		Trachinidae		2
		Triglidae		3
		Scorpaenidae		11
		Labridae		13

Class	Order	Family	Family by Order	Species by Family
		Uranoscopidae		2
		Pinguipedidae		1
	Centrarchiformes		2	
		Girellidae		1
		Kyphosidae		3
	Acropomatiformes		2	
		Epigonidae		1
		Polyprionidae		1
	Acanthuriformes		17	
		Gerreidae		2
		Ephippidae		2
		Sciaenidae		2
		Haemulidae		7
		Lobotidae		1
		Emmelichthyidae		1
		Lutjanidae		5
		Latilidae		1
		Pomacanthidae		1
		Chaetodontidae		3
		Luvaridae		1
		Acanthuridae		2
		Lethrinidae		1
		Sparidae		16
		Cepolidae		1
		Priacanthidae		3
		Caproidae		2
	Lophiiformes		2	
		Lophiidae		1
		Antennariidae		6
	Tetraodontiformes		5	

Class	Order	Family	Family by Order	Species by Family
		Molidae		3
		Diodontidae		5
		Tetraodontidae		5
		Monacanthidae		6
		Balistidae		7

Table 4. Taxonomic levels with numbers.		
Taxon	number	
Order	39	
Family	125	
Genus	266	
Species	393	

Taxa included:

Rank	Scientific Name	Common Name
class	Elasmobranchii	Elasmobranchs (Sharks and Rays)
class	Actinopteri	Ray finned fish

Temporal coverage

Notes: This work does not define a specific temporal scope, as it compiles data from historical inventories and faunistic records. By synthesising information across a broad temporal range and integrating it with current knowledge of Cabo Verde's coastal ichthyofauna, the study presents a comprehensive overview of present understanding of coastal fish assemblages.

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Data resources

Data package title: Checklist list of Coastal fishes of Cabo Verde

Resource link: https://www.gbif.org/dataset/ecf78ae1-c4dc-48cc-9ff3-bb77d46a8e76

Alternative identifiers: http://ipt.gbif.pt/ipt/resource?r=cabo verde coastal fishes

Number of data sets: 1

Data set name: Checklist list of Coastal fishes of Cabo Verde

Character set: UTF-8

Download URL: http://ipt.gbif.pt/ipt/archive.do?r=cabo verde coastal fishes&v=1.1

Data format: Darwin Core

Description: List of coastal fish species (0-200 metres deep) with confirmed updated

occurrences in the Cabo Verde archipelago.*1

This list includes 393pecies belonging to the classes **Elasmobranchii** and **Actinopteri**. Taxonomic and phylogenetic ordering follows Fricke et al. (2025) and Van der Laan et al. (2025) down to the family level, with genera and species listed alphabetically.

For certain species, we were unable to confirm their occurrence in the archipelago or existing records were deemed dubious or erroneous. These taxa are listed in Table 5, along with the sources that previously reported them for Cabo Verde.

Family	Species	Occurrence status	Reference	Observations
Torpedinidae	: Torpedo torpedo (Linnaeus, 1758)	Need	Reiner (2005)	The photo in Reiner (2005) shows <i>Torpedo marmorata</i> Risso 1810
Atherinidae	Atherina presbyter Cuvier, 1829	Doubtful	Mugé in Quéro et al. (1990)	Probably a confusion with <i>Atherina lopeziana</i> Rossignol & Blache 1961
Scorpaenidae	Scorpaena canariensis (Sauvage, 1878)	Mistaken	D' Oliveira (2010)	The blurred photo in D' Oliveira (2010) does not show this species

Family	Species	Occurrence status	Reference	Observations
Epinephelidae	Epinephelus aeneus (Geoffroy St. Hilaire, 1817)	Need Confirmation	Cadenat (1935), Reiner (1996), Monteiro (2008)	The photo in Monteiro (1998), Monteiro (2008) and the photos labelled "E. aeneus" in the INDP data collection actually show Epinephelus goreensis (Valenciennes 1830). Cadenat (1935) explicitly notes the species not only from the African coast, but also from the Cape Verde Islands
Epinephelidae	Mycteroperca rubra (Bloch, 1793)	Mistaken	Reiner (1996)	Called <i>Mycteroperca rubra</i> (Bloch, 1793) by Monteiro (1998), Maggio et al. (2005), Medina et al. (2007) and others. A photo taken by RF at the Cape Verde Islands can be found in www.fishbase.org
Pomacentridae	Chromis limbata (Valenciennes, 1833)	Mistaken	Zander (2011)	Probably confusion with Azurina multilineata (Guichenot 1843)
Tetraodontidae	Lagocephalus laevigatus (Linnaeus, 1766)	Not valid	Lloris et al. (1991), Reiner (1996)	We can find no evidence for the presence of this species at the Cape Verde Islands

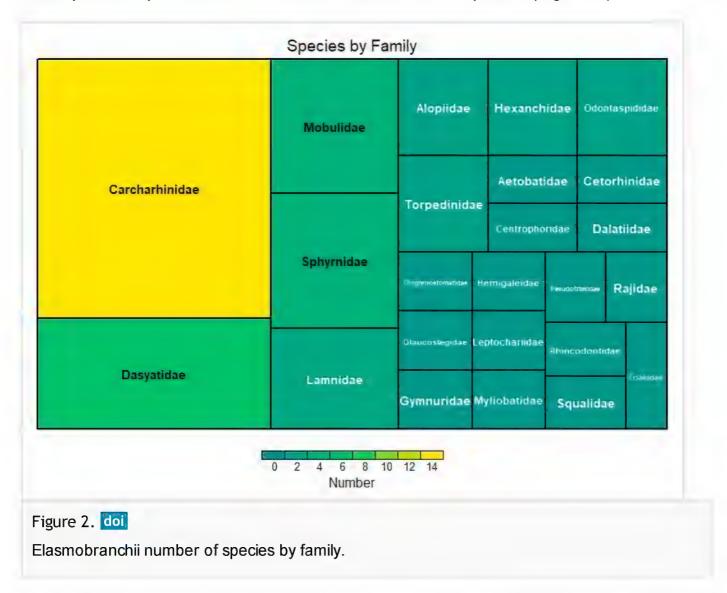
Column label	Column description	
id	Life Sciences Identifier: World Register of Marine Species: Taxon ID.	
taxonID	Life Sciences Identifier: World Register of Marine Species: Taxon ID.	
acceptedNameUsageID	Life Sciences Identifier: World Register of Marine Species: Taxon ID.	
parentNameUsageID	Parent Name: Life Sciences Identifier: World Register of Marine Species: Taxon	
parentNameUsage	parentNameUsage.	
scientificName	scientificName.	
Kingdom	Kingdom.	
phylum	phylum.	
class	class.	
order	order.	
family	family.	
genus	genus.	
specificEpithet	specificEpithet.	
taxonRank	Rank of the taxon.	
scientificNameAuthorship	Authorship of the scientific name.	

Additional information

Coastal fishes from Cabo Verde (Eastern Central Atlantic).

Analysis and discussion

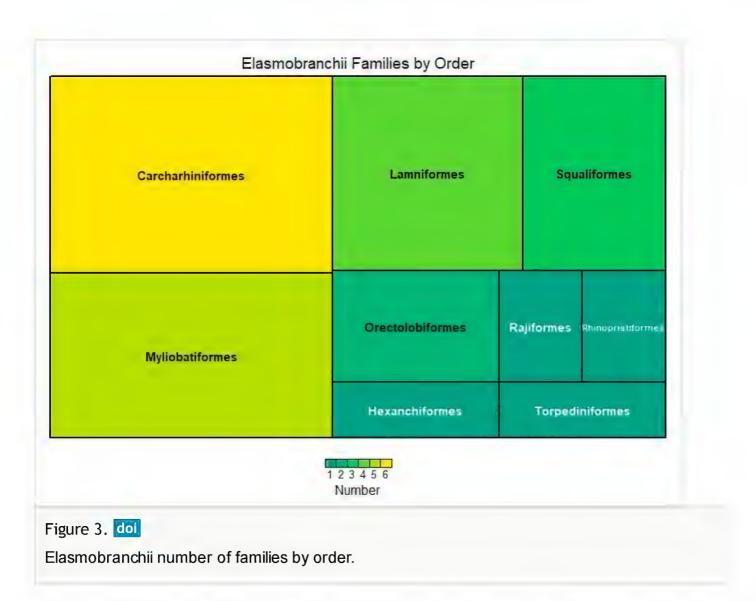
This dataset encompasses the classes Elasmobranchii and Actinopteri (Table 4). Elasmobranchii is represented by 10 orders, 22 families and 50 species (Figs 2, 3), while Actinopteri comprises 29 orders, 103 families and 343 species (Figs 4, 5).



Regarding conservation status (Fig. 6) and according to the IUCN Red List (IUCN 2024), the majority of species were assessed as of Least Concern. However, approximately 15% fall into threatened categories, including Vulnerable, Endangered or Critically Endangered.

Our species list is based primarily on the compilation by Wirtz et al. (2013), as it includes critical commentary on species occurrences. In some cases, we also incorporated earlier records not mentioned in Wirtz et al. (2013), as well as more recent publications that confirmed or expanded upon previous observations. Additionally, we considered selected 'grey literature' sources, which provide relevant information on species presence and photographic documentation, such as Mascarenhas (2022).

Wirtz et al. (2013) Wirtz et al. (2013) Mascarenhas (2022)



Since we followed the phylogenetic and taxonomic arrangement proposed by Fricke et al. (2025) and Van der Laan et al. (2025) Eschmeyer's Catalogue of Fishes, with orders and families sorted accordingly and species listed alphabetically. Scientific names and taxonomic validity were also based on Eschmeyer's taxonomy, which may differ from the nomenclature used in some of the referenced literature. This is exemplified by *Kyphosus* spp. and *Mullus africanus*, both considered valid species in Eschmeyer, whereas *Mullus argentinae africanus* is retained as a subspecies by Uiblein et al. (2024), who argues that the available evidence is insufficient to justify its elevation to species level. Another case is *Uraspis secunda*, recorded for Cabo Verde by Wirtz et al. (2013), yet considered a synonym of *Uraspis helvola* (Forster, 1801) in Eschmeyer. Further discussion on this taxonomic decision is provided by Carpenter and De Angelis (2016b).

In exceptional cases where new species records have not yet been formally published, we relied on first-hand observations reported to one of the authors (Rui Freitas - RF). These records were accepted when the observer's expertise was deemed sufficiently reliable to validate the occurrence. On two occasions, we confirmed species presence through museum specimens, namely *Saurida brasiliensis* Norman, 1935 and *Coelorinchus caelorhincus* (Risso, 1810); however, we were unable to locate the original publications corresponding to these records.

We here validate the presence of *Thalassoma newtoni* (Osório, 1891), which was initially mentioned by Reiner (2005), but listed as a "mistaken record" in Wirtz et al. (2013). Our confirmation is based on a video recording (Fig. 9), published on YouTube by

@snorkeeb.716 in June 2018 on Tarrafal (Santiago Island) and sent to RF by Juan Torres.

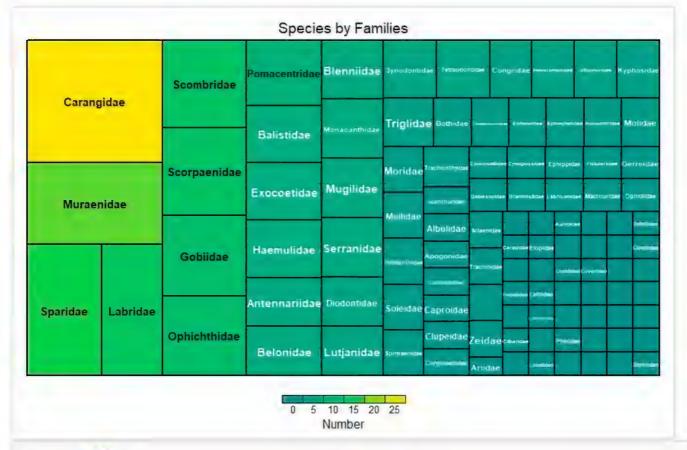


Figure 4. doi

Actinopteri number of species by family.

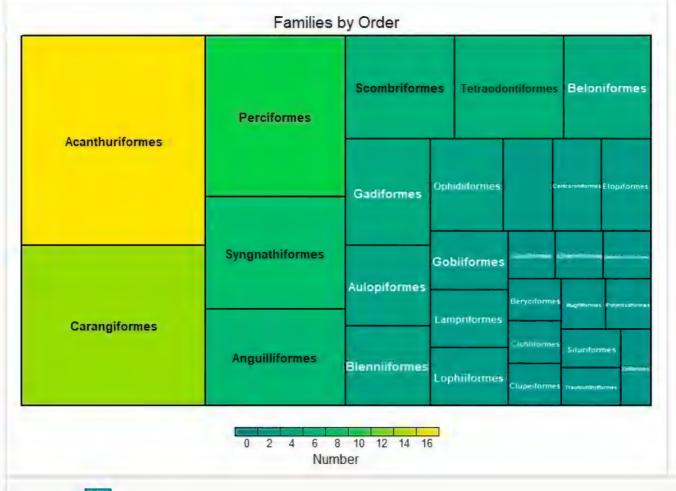


Figure 5. doi

Actinopteri family numbers by orders.



Figure 6. doi

IUCN Accessemnts by numbers. NE - Not Evaluated, DD - Data Deficient, LC - Least Concern, NT - Near Threatned, VU - Vulnerable, EN - Endangered, CR - Critically Endangered.

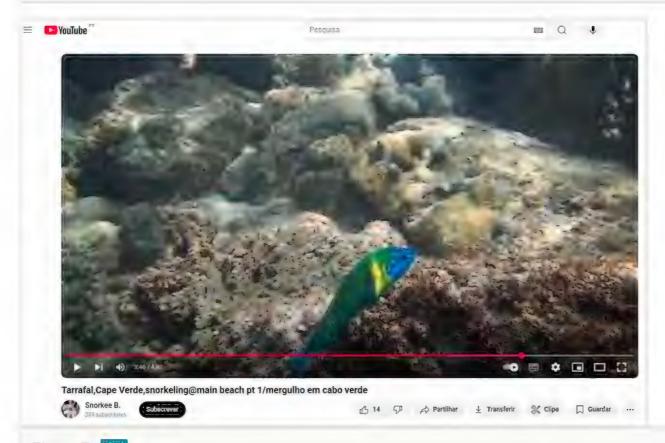


Figure 7. doi

A frame captured from a video recorded by @snorkeeb.716 in June 2018, at Tarrafal (Santiago Island, Cabo Verde), at timestamp 3 minutes and 45 seconds, clearly shows a specimen of *Thalassoma newtoni* (Osório, 1891).



Figure 8. doi

A photograph taken by Samir Martins in 2016 documents the presence of *Diodon eydouxii*Brisout de Barneville, 1846, at Ponta Antónia, Boa Vista Island (Cabo Verde).



Figure 9. doi

The video, recorded by @snorkeeb.716 in June 2018 at Tarrafal (Santiago Island, Cabo Verde), shows a specimen of *Thalassoma newtoni* (Osório, 1891) at the 3 minutes and 45 seconds mark.

Another noteworthy case is that of *Diodon eydouxii* Brisout de Barneville, 1846 (Fig. 8), which was found washed ashore at Ponta Antónia (Boa Vista Island). This specimen was one of 25 species stranded during the same event. To our knowledge, the only record of this occurrence was published in a local newspaper by RF. As far as we are aware, this constitutes the first confirmed and documented occurrence of the species within the Cabo Verde archipelago.

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Author contributions

LMDB: Conceptualisation, Data curation, Investigation, Methodology, Validation, Visualisation, Writing - original draft, Writing - review and editing; **RF**: Conceptualisation, Data curation, Investigation, Methodology, Validation, Visualisation, Writing - original draft, Writing - review and editing; **JPB**: Conceptualisation, Funding acquisition, Investigation, Methodology, Resourses, Supervision, Validation, Visualisation, Writing - original draft, Writing - review and editing.

LMDB & **RF** contributed equally as co-first authors

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Endnotes

This is a list of the species that we consider to have a confirmed presence in Cabo Verde. There may be other species that we are not aware of or that other authors consider to be present, as well as species whose presence is not considered by other authors.